
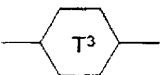
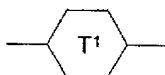



In (XVII), ,  is phenylene-1,4-diyl, unsubstituted, monosubstituted or disubstituted by F, cyclohexane-1,4-diyl, pyridine-2,5-diyl, pyrimidine-2,5-diyl, (1,3,4)-thiadiazole-2,5-diyl

5

,  is phenylene-1,4-diyl, unsubstituted, monosubstituted or disubstituted by F, cyclohexane-1,4-diyl, pyridine-2,5-diyl, 2-fluoropyridine-3,6-diyl, pyrimidine-2,5-diyl, (1,3,4)-thiadiazole-2,5-diyl

q, s are each zero or 1; their sum being 0 or 1

10 R^{10} , R^{11} are, independently of one another, identical or different and are each hydrogen or a straight-chain or branched alkyl or alkyloxy radical (with or without asymmetric carbon atoms) having 2 - 16 carbon atoms, where one or two nonterminal $-CH_2-$ groups may be replaced by $-CH=CH-$, $-OC(=O)-$, $-C(=O)O-$ and one or more H atoms may be replaced by F

15 with the proviso that only one of the radicals R^{10} , R^{11} can be hydrogen.

The liquid-crystal mixture preferably consists of 3-30 compounds and comprises at least one compound of the formula (I) and at least one compound of the formula (II) and, if desired, at least one compound of the formula (III).

20

Preferably, the liquid-crystal mixture additionally comprises at least one compound selected from the groups (IV), (V), (VI), (VII).

25 Particularly preferably, the liquid-crystal mixture additionally comprises at least one compound selected from the groups (VIII), (IX), (XII), (XVI), (XVII). Likewise particularly preferably, the liquid-crystal mixture additionally comprises at least one compound selected from the groups (X), (XI), (XIV), (XV).

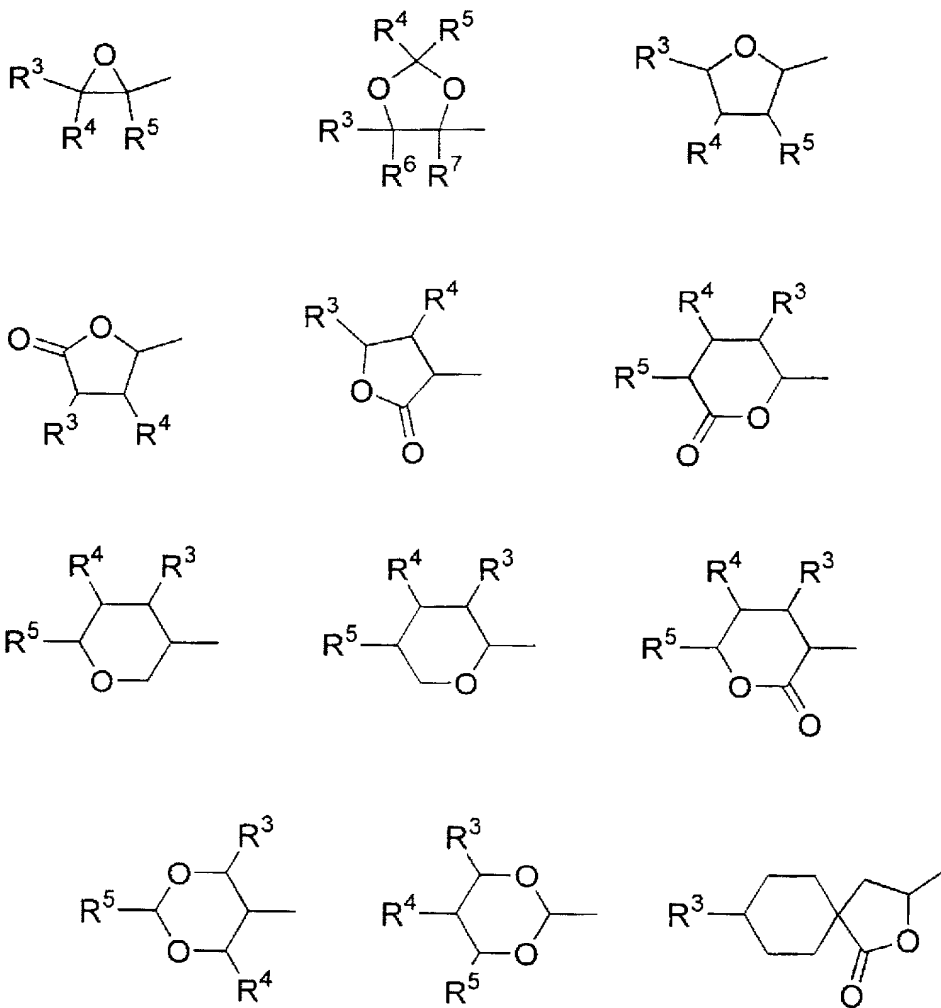
30

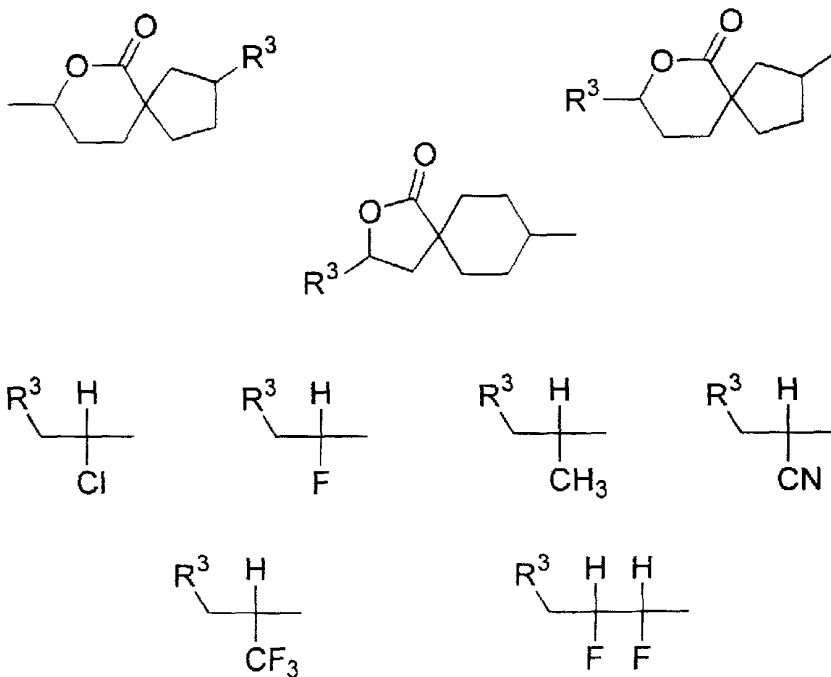
The liquid-crystal mixture may also comprise at least one compound of the formula (XIII).

35 Preferably, the mixture additionally comprises at least one compound selected from the group (I) to (XVII), where

- R^{10} , R^{11} are, independently of one another, identical or different and are each hydrogen or a straight-chain or branched alkyl or alkyloxy radical (with or without asymmetric carbon atoms) having 2 - 16 carbon atoms, where one or two nonterminal $-CH_2-$ groups may be replaced by $-CH=CH-$, $-OC(=O)-$, $-C(=O)O-$ and one or more H atoms may be replaced by F with the proviso that only one of the radicals R^{10} , R^{11} can be hydrogen and where, in addition, the terminal $-CH_3-$ group in at least one of R^{10} , R^{11} is replaced by one of the following chiral groups (optically active):

10





R^3, R^4, R^5, R^6, R^7 are identical or different and are each

- 5
 - a) hydrogen
 - b) a straight-chain or branched alkyl radical (with or without asymmetric carbon atoms) having 1 to 16 carbon atoms, where
 - b1) one or more nonadjacent and nonterminal CH_2 groups may be replaced by -O- and/or
 - b2) one or two CH_2 groups may be replaced by -CH=CH-,
 - c) R^4 and R^5 together may alternatively be $-(CH_2)_4-$ or $-(CH_2)_5-$ if they are attached to an oxirane, dioxolane, tetrahydrofuran, tetrahydropyran, butyrolactone or valerolactone system.
- 15 Particularly preferably, the mixture comprises 1 to 5 compounds selected from the group (I) to (XVII), where

R^{10}, R^{11} are, independently of one another, identical or different and are each hydrogen or a straight-chain or branched alkyl or alkyloxy radical (with or without asymmetric carbon atoms) having 2 - 16 carbon atoms, where
- 20 one or two nonterminal $-CH_2-$ groups may be replaced by $-CH=CH-$, $-OC(=O)-$, $-C(=O)O-$ and one or more H atoms may be replaced by F with the proviso that only one of the radicals R^{10}, R^{11} can be hydrogen and where, in addition, the terminal $-CH_3-$ group in at least one of R^{10}, R^{11} is replaced by one of the following chiral groups (optically active):